

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	BRS	L1	1431	plant adj protein	USPAT	2003/07/28 10:57			0
2	BRS	L2	2479	soy adj protein	USPAT	2003/07/28 10:57			0
3	BRS	L3	2732	polylactide	USPAT	2003/07/28 10:58			0
4	BRS	L4	1	(1 or 2) same 3	USPAT	2003/07/28 10:58			0
5	BRS	L5	3914	compatibilizer	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:13			0
6	BRS	L6	69387	oxazoline or polybutadiene	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:13			0
7	BRS	L7	140	5 same 6	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:13			0
8	BRS	L8	1	(compatibilizer same (oxazoline or polybutadiene)) SAME (( plant adj protein ) or (soy adj protein )) same polylactide )	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:18			0
9	BRS	L9	129961	PLASTICIZER	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:15			0
10	BRS	L10	16499	(glycerol or glycol) same PLASTICIZER	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:16			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
11	BRS	L11	1	((5 or 7) SAME (( (plant adj protein ) or (soy adj protein )) same polylactide )	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:17		0	
12	BRS	L13	1	((9 or 10) SAME (( (plant adj protein ) or (soy adj protein )) same polylactide )	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:23		0	
13	BRS	L14	31059	cross-linking adj agent	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:19		0	
14	BRS	L15	33881	cross adj linking adj agent	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:20		0	
15	BRS	L16	258389	((glutaric adj dialdehyde) or epichlorohydrin or formaldehyde or glyoxal or (adipic adj anhydride) or (acetic adj anhydride) or (zinc adj sulfate) or (calcium adj chloride)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:22		0	
16	BRS	L17	3404	15 same 16	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:22		0	
17	BRS	L18	1	((15 or 17) SAME (( (plant adj protein ) or (soy adj protein )) same polylactide )	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:24		0	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
18	BRS	L19	0	2 same 3 same 7 same 17 same 10	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:24			0
19	BRS	L20	1	zhang adj jinwen.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:25			0
20	BRS	L21	1	mungara adj perminus.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:25			0
21	BRS	L22	9	jane adj jay-lin.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:25			0
22	BRS	L23	1	((jane adj jay-lin.in.) and ((plant adj protein ) or (soy adj protein )) same polylactide )	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/28 11:26			0

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FILE 'AGRICOLA' ENTERED AT 11:30:56 ON 28 JUL 2003

=> s plant protein  
L1 38909 PLANT PROTEIN

=> s soy protein  
L2 13213 SOY PROTEIN

=> s polylactide  
L3 5710 POLYLACTIDE

=> s (l1 or l2) (p) l3  
L4 1 (L1 OR L2) (P) L3

=> d l4 1 ibib abs

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER: 2003:319466 CAPLUS  
DOCUMENT NUMBER: 138:322139  
TITLE: Biodegradable plant protein-lactic acid composites and related methods  
INVENTOR(S): Zhang, Jinwen; Mungara, Perminus; Jane, Jay-Lin  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 21 pp., Cont.-in-part of U.S. Ser. No. 564,005.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003078323	A1	20030424	US 2001-976346	20011012
PRIORITY APPLN. INFO.:			US 1999-132494P	P 19990504
			US 2000-564005	A2 20000503

AB A non-toxic biodegradable \*\*\*plant\*\*\* \*\*\*protein\*\*\* composite comprises: 5 to 90 parts \*\*\*soy\*\*\* \*\*\*protein\*\*\* ; and 90 to 5 parts of a \*\*\*polylactide\*\*\*. The composite also preferably includes a compatibilizer, a crosslinking agent, and a plasticizer. The composites of this invention offer the advantages of being water resistant and biodegradable.

=> s compatibilizer  
L5 7226 COMPATIBILIZER

=> s oxazoline or polybutadiene  
L6 46913 OXAZOLINE OR POLYBUTADIENE

=> s l4 (p) l5  
L7 1 L4 (P) L5

=> s plasticizer  
L8 70134 PLASTICIZER

=> s glycerol or glycol  
L9 650011 GLYCEROL OR GLYCOL

=> s 18 (p) 19  
L10 8282 L8 (P) L9

=> s 14 (p) 18  
L11 1 L4 (P) L8

=> s cross linking agent  
L12 6609 CROSS LINKING AGENT

=> s 14 (p) 112  
L13 0 L4 (P) L12

=> s 11 (p) 15 (p) 18 (p) 112  
L14 0 L1 (P) L5 (P) L8 (P) L12

=> s jane jay-lin/au  
L15 99 JANE JAY-LIN/AU

=> s 115 and (11 or 12)  
L16 10 L15 AND (L1 OR L2)

=> s 116 and 13  
L17 1 L16 AND L3

=> s 117 not 14  
L18 0 L17 NOT L4

=> d his

(FILE 'HOME' ENTERED AT 11:30:28 ON 28 JUL 2003)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT  
11:30:56 ON 28 JUL 2003

L1 38909 S PLANT PROTEIN  
L2 13213 S SOY PROTEIN  
L3 5710 S POLYLACTIDE  
L4 1 S (L1 OR L2) (P) L3  
L5 7226 S COMPATIBILIZER  
L6 46913 S OXAZOLINE OR POLYBUTADIENE  
L7 1 S L4 (P) L5  
L8 70134 S PLASTICIZER  
L9 650011 S GLYCEROL OR GLYCOL  
L10 8282 S L8 (P) L9  
L11 1 S L4 (P) L8  
L12 6609 S CROSS LINKING AGENT  
L13 0 S L4 (P) L12  
L14 0 S L1 (P) L5 (P) L8 (P) L12  
L15 99 S JANE JAY-LIN/AU  
L16 10 S L15 AND (L1 OR L2)  
L17 1 S L16 AND L3  
L18 0 S L17 NOT L4

=> log y  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
38.04	38.25

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.65	-0.65

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